

NG-EPON

Industry Connections Activity

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Agenda

- ▶ Appointment of Recording Secretary
- ▶ Confirmation of Chair
- ▶ Welcome and Introductions
- ▶ Approve Agenda
- ▶ Reflector and Web
- ▶ Ground Rules
- ▶ Why an ICom project?
- ▶ Current Status
- ▶ Goals for this meeting
- ▶ Presentations
- ▶ Straw polls, Motions and Closing Business
- ▶ Future Meetings

Reflector and Web

- ▶ To subscribe to the NG-EPON ad hoc committee reflector, send an email to:
ListServ@ieee.org

with the following in the body of the message (do not include “<>”):
subscribe stds-802-3-ngepon <yourfirstname> <yourlastname>
end

- ▶ Send NG-EPON ad hoc committee reflector messages to:
stds-802-3-ngepon [@listserv.ieee.org](mailto:stds-802-3-ngepon@listserv.ieee.org)
- ▶ Study Group web page URL:
http://www.ieee802.org/3/ad_hoc/ngepon/index.html

ad hoc Decorum



- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2013 IEEE-SA Standards Board Ops Manual 5.3.3.5)
- Photography or recording by permission only (December 2013 IEEE-SA Standards Board Ops Manual 5.3.3.4)
- Cell phone ringers off
- Wear your badges at all times in meeting areas
 - Help the hotel security staff improve the general security of the meeting rooms
 - **PCs HAVE BEEN STOLEN** at previous meetings
 - **DO NOT** assume that meeting areas are secure
- Please observe proper decorum in meetings

Ground Rules

- ▶ Based upon IEEE 802.3 Rules
 - ▶ Foundation based upon Robert's Rules of Order
 - ▶ Anyone in the room may speak
 - ▶ Anyone in the room may vote
- ▶ **RESPECT**... give it, get it
- ▶ NO product pitches
- ▶ NO corporate pitches
- ▶ NO prices!!!
 - ▶ This includes costs, ASPs, etc. no matter what the currency
- ▶ NO restrictive notices

Why an ICCOM project?

- ▶ There is growing interest in the question:
What's next for Ethernet Passive Optical Networks?
 - ▶ Several important events have recently occurred:
 - ▶ IEEE Std 802.3-2012 1G/10G and 10G/10G EPON (nee IEEE Std 802.3av-2009) mass deployments are beginning
 - ▶ IEEE Std 1904.1 Service Interoperability for EPON approved as an IEEE Standard on 14-June-2013
 - ▶ IEEE P802.3bk Extended EPON completed
 - ▶ IEEE P802.3bn EPoC PHY well underway
 - ▶ However, there is broad agreement that it is too early to start a study group for an NG-EPON standards project
 - ▶ There are too many important areas to be investigated first
 - ▶ An ICCom project allows us to perform these investigations under the auspices of the IEEE

NG-EPON ICCOM project goals

- ▶ Create a venue for interested individuals to discuss the requirements and technical options for the next generation of Ethernet Passive Optical Networks
- ▶ Operate under and report to the IEEE 802.3 Ethernet Working Group
- ▶ Explore operators' requirements
- ▶ Explore market potential
- ▶ Explore technological and economic tradeoffs.
- ▶ Explore the state of the art of optical technology for subscriber access networks
- ▶ Produce a report of the group's findings

Current status

- ▶ The Industry Connections Activity Initiation Document (ICAID) was approved by the IEEE-SA Standards Board on December 21st, 2013.
- ▶ We are now allowed to meet as an ad hoc committee under the auspices of the IEEE 802.3 Working Group
- ▶ We will meet at each plenary and interim session, probably for one day at each session

Plan for this week

▶ Hear five presentations

1. Perspective From Bright House Networks – Marek Hajduczenia – Bright House Networks
2. Four Candidate NG-EPON Solutions – Duane Remein – Huawei Technologies
3. Optical Wavelength Considerations for NG EPON – Bill Powell – Alcatel Lucent
4. NGEPON: Requirements and Architecture Considerations – Eugene Dai – Cox Communications
5. Taxonomy of PON – Glen Kramer – Broadcom Corporation

▶ Plan for next meeting

Items for next meeting

- ▶ Request presentations on:
 - ▶ Operator requirements
 - ▶ Tunable optical transceiver technology and relative cost trends
 - ▶ Outline of report
 - ▶ FSAN & ITU-T activities
 - ▶ Fiber characteristics in the ODN
 - ▶ Energy efficiency
 - ▶ OFDM in optical domain

Straw Poll

- ▶ I will attend the meeting in Beijing 10
- ▶ I may attend the meeting in Beijing 6
- ▶ I may not attend the meeting in Beijing 1
- ▶ I will not attend the meeting in Beijing 2